

CLOSE PACKING LED ASSEMBLY WITH VERSATILE INTERCONNECT ARCHITECTURE

Abstract of Disclosure

A modular mounting assembly (10) for connecting a plurality of LED's in a selectable electrical and spatial arrangement includes a plurality of substrates (12) each having at least one LED (14a, 14b) fixedly arranged thereon, and a plurality of connectors (16) arranged thereon that are in operative communication with the at least one LED (14a, 14b) fixedly arranged thereon. The plurality of substrates (12) are arranged in a selected spatial arrangement having selected pairs of connectors (16) in operative communication with each other to effectuate electrical connection therebetween, whereby an electrical arrangement of the plurality of LED's is effectuated. A plurality of interconnecting elements (50A, 50D, 50S, 50P) electrically and structurally interconnect selected spatially adjacent substrates (12) in cooperation with the selected pairs of connectors. A connector (16) has a plurality of electrical conductor members (1, 2, 3, 4, 5), and an interconnecting element (50) has a selected electrical configuration that effectuates a selected interconnection of conductor members (1, 2, 3, 4, 5).

Figures